



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 986 184 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
12.09.2001 Bulletin 2001/37

(51) Int Cl.7: **H04B 1/08, H04B 1/20**

(43) Date of publication A2:
15.03.2000 Bulletin 2000/11

(21) Application number: **99116754.5**

(22) Date of filing: **30.08.1999**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **11.09.1998 JP 25866498**
09.04.1999 JP 10237799

(71) Applicant: **Mazda Motor Corporation**
Aki-gun, Hiroshima 730-8670 (JP)

(72) Inventors:
• **Ogawa, Norifumi**
Aki-gun, Hiroshima 730-8670 (JP)
• **Matsumoto, Masaki**
Aki-gun, Hiroshima 730-8670 (JP)

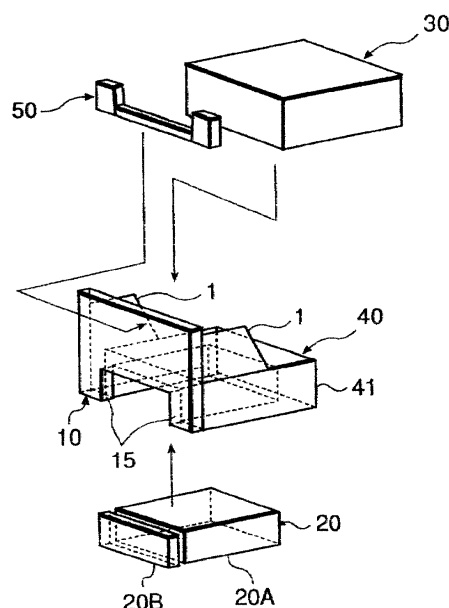
- **Ohe, Ryoji**
Aki-gun, Hiroshima 730-8670 (JP)
- **Takahashi, Masayoshi**
Aki-gun, Hiroshima 730-8670 (JP)
- **Ikeda, Toshifumi**
Aki-gun, Hiroshima 730-8670 (JP)
- **Hirasa, Yoshiaki**
Aki-gun, Hiroshima 730-8670 (JP)
- **Fujiwara, Akihiro**
Aki-gun, Hiroshima 730-8670 (JP)

(74) Representative: **Müller-Boré & Partner**
Patentanwälte
Grafinger Strasse 2
81671 München (DE)

(54) **Vehicle electronic system**

(57) A projection (41) protrudes downward from the lower side edge portion of a third electronic control unit (40). The projection forms a recess which houses a first electronic control unit (20) under the third electronic control unit (40) and has a lower opening. The third electronic control unit (40) and a control panel (10) are electrically connected to each other via connectors (13, 43). A second electronic control unit (30) is placed on the upper surface of the third electronic control unit (40), and the first and third electronic control units (20, 40) and the second and third electronic control units (30, 40) are respectively detachably connected to each other via connectors.

FIG. 1



EP 0 986 184 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 11 6754

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 797 088 A (STAMEGNA IVANO) 18 August 1998 (1998-08-18) * column 4, line 31 - column 6, line 50; figure 1 *	1-20	H04B1/08 H04B1/20
A	US 4 513 405 A (HILLS JOSEPH F) 23 April 1985 (1985-04-23) * column 5, line 46 - line 64; figure 5 *	1-4, 6, 11-14, 17-20	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H04B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 July 2001	Examiner Andersen, J.G.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 (5.9.92) (P94-001)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 11 6754

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-07-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5797088 A	18-08-1998	WO 0008878 A	17-02-2000
		US 6085078 A	04-07-2000
		US 6058298 A	02-05-2000
		EP 1025719 A	09-08-2000
US 4513405 A	23-04-1985	NONE	

EPO FORM P0456

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82